

Application No.: 10/057,607

Docket No.: 22106-00039-US1

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A biodegradable mixture of polyesters comprising:

- (A) a polyhydroxy acid of [the] poly- ϵ -caprolactone [type] and its copolymers with a molecular weight M_w greater than 50,000;
- (B) a polyester of [the] a diacid and a diol [type] with a molecular weight M_w greater than 60,000 and a melting point lying between 50 and 90°C;
- (C) a polymer of ~~polylactic~~ lactic acid which contains at least 75% L-lactic or D-lactic acid or their combinations with a molecular weight M_w greater than 30,000 in which the concentration of (A) varies with respect to (A + B) in the range of between 40 and 70% by weight, and the concentration of C with respect to (A + B + C) lies between 2 and 30, ~~preferably between 5 and 25%~~ by weight and with a UV stability measured on film of 25-30 μ m which has an average reduction in its tensile properties after 216 hours of exposure to UV rays less than 30% considered as the average reduction in breaking load, elongation at breakage and longitudinal breaking energy.

Claim 2 (Currently Amended) A biodegradable mixture of polyesters according to claim 1, in which the aliphatic polyester (B) has a modulus of elasticity lying between 200 and 900 Mpa and a breaking elongation greater than 200%, ~~more preferably greater than 300%~~ for film with a thickness of 25-30 μ m produced by blown ~~file~~ film formation.

Claim 3 (Currently Amended) A biodegradable mixture of polyesters according to claim 1 in which the polymer of ~~polylactic~~ lactic acid (C) has a modulus of elasticity greater than 1500 Mpa.

Claim 4 (Currently Amended) A biodegradable mixture of polyesters according to claim 1, in which the aliphatic polyester (B) has a melting point lying between 55 and 85°C, ~~preferably between 57 and 80°C.~~

Application No.: 10/057,607

Docket No.: 22106-00039-US1

Claim 5 (Currently Amended) A biodegradable mixture of polyesters according to claim 1, in which the diacid content of the aliphatic polyester (B) is azelaic acid, sebacic acid, brassylic acid, or mixtures of these in concentrations, with respect to the total acid, is greater than 50mole% ~~and preferably greater than 70mole%.~~

Claim 6 (Original) A biodegradable mixture of polyesters according to claim 1, combined with a de-structured starch, raw starch, or modified starch in which the starch is in dispersed phase, complexed or not complexed.

Claim 7 (Original) A film produced by mixtures of biodegradable polymers according to claim 1.

Claim 8 (Currently Amended) A film according to claim 7 ~~characterised~~ characterized by a bidirectional tear resistance with the Elmendorf test lying between 5 and 100 N/mm, ~~preferably 7 and 90 N/mm and more preferably between 10 and 80 N/mm.~~

Claim 9 (Currently Amended) A film according to claim 8 ~~characterised~~ characterized in that the ratio between the tear resistance values according to the Elmendorf test in the transverse and longitudinal directions lies between 4.5 and 0.4.

Claim 10 (Currently Amended) A film according to claim 7, ~~characterized~~ characterized in that the value of the modulus of elasticity lies between 200 and 1200 MPa, ~~more preferably between 300 and 1000 MPa.~~

Claim 11 (Original) A multi layer film constituted by one or more layers of material according to claim 1, and at least one layer of material comprising aliphatic/aromatic polyester as such or in a blend with other polyesters and/or with de-structured starch.

Application No.: 10/057,607

Docket No.: 22106-00039-US1

Claim 12 (Currently Amended) A multi layer film according to claim 11, in which the aliphatic/aromatic polyester is polybutylene terephthalate-adipate with a ratio between terephthalic and adipic acid less than 65 mole%, in a blend with a de-structured starch and ~~possibly~~ optionally polylactic acid.

Claim 13 (Currently Amended) ~~Use of film according to claim 7 as a~~ A transparent agricultural mulch, ~~as a~~ or green-house cover or ~~for~~ packaging for straw and forage comprising the film according to claim 7.

Claim 14 (Currently Amended) ~~Use of film according to claim 7 for packaging~~ Packaging for food or for containing container for organic residues comprising the film according to claim 7.

Claim 15 (Original) A solid sheet produced from mixtures according to claim 1 for food containers, pots for fish breeders, or industrial containers in general.

Claim 16 (Currently Amended) An expanded sheet produced from mixtures according to claim 1 for food or other containers ~~and~~ or for industrial packaging.

Claim 17 (Original) Fibres produced from mixtures according to claim 1 for woven or non-woven textiles for use in industrial, clothing and sanitary sectors.

Claim 18 (Original) A coating material produced from mixtures according to claim 1 for application to paper, woven or non-woven fabric, or other layers of solid or expanded biodegradable material.

Please add the following new claims:

Application No.: 10/057,607

Docket No.: 22106-00039-US1

Claim 19 (New) A biodegradable mixture of polyesters according to claim 1, in which the concentration of C with respect to (A + B + C) lies between 5 and 25% by weight.

Claim 20 (New) A biodegradable mixture of polyesters according to claim 2, in which the aliphatic polyester (B) has a breaking elongation greater than 300% for film with a thickness of 25-30 μm produced by blown film formation.

Claim 21 (New) A biodegradable mixture of polyesters according to claim 4, in which the aliphatic polyester (B) has a melting point lying between 57 and 80°C.

Claim 22 (New) A biodegradable mixture of polyesters according to claim 5, in which the diacid content of the aliphatic polyester (B) in azelaic acid, sebacic acid, brassylic acid, or mixtures of these in concentrations, with respect to the total acid, is greater than 70 mole%.

Claim 23 (New) A film according to claim 8 characterized by a bidirectional tear resistance with the Elmendorf test lying between 7 and 90 N/mm.

Claim 24 (New) A film according to claim 23 characterized by a bidirectional tear resistance with the Elmendorf test lying between 10 and 80 N/mm.

Claim 25 (New) A film according to claim 10 characterized in that the value of the modulus of elasticity lies between 300 and 1000 Mpa.